

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 79-152

NPDES PERMIT NO. CA0038237

WASTE DISCHARGE REQUIREMENTS FOR:

EAST BAY MUNICIPAL UTILITY DISTRICT
UPPER SAN LEANDRO FILTER PLANT
OAKLAND, ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. On December 17, 1974, the Board adopted Order No. 74-174 prescribing waste discharge requirements for East Bay Municipal Utility District, Upper San Leandro Filter Plant, hereinafter called the discharger. The Order expires December 5, 1979.
2. The discharger has submitted an NPDES Permit application dated June 29, 1979, for reissuance of NPDES Permit No. CA0038237.
3. Discharger's filter plant will produce up to 16 million gallons per day (mgd) of potable water by coagulation, flocculation, sedimentation, and filtration. The plant's wastewater disposal facilities have eliminated the normal discharge of wastewaters to a storm drain in Fontaine Street tributary to Arroyo Viejo upstream of Holy Redeemer College, Oakland. However, potable water taste and odor problems occasionally occur which may necessitate discharge of settled wastewater and sedimentation and sludge basin supernatant to Arroyo Viejo. This discharge would be at an average rate of 3.1 mgd with a maximum daily rate of 14.8 mgd.
4. The Board, in April 1975, adopted a Water Quality Control Plan for the San Francisco Bay Basin. The Basin Plan contains water quality objectives for Arroyo Viejo.
5. The beneficial uses of Arroyo Viejo and contiguous waters are:
 - a. Recreation (contact and non-contact)
 - b. Fish migration and habitat
 - c. Habitat and resting for waterfowl and migratory birds
 - d. Esthetic enjoyment
6. Effluent limitations and toxic effluent standards, established pursuant to Sections 208(b), 301, 304, and 307 of the Federal Water Pollution Control Act and amendments thereto are applicable to the discharge.

7. This project involves the continued operation of a publicly-owned facility with negligible or no expansion of use beyond that previously existing. Consequently, this project will not have a significant effect on the environment based upon the exemption provided in Section 15101, Title 14, California Water Code.
8. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
9. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that East Bay Municipal Utility District, Upper San Leandro Filter Plant, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Federal Water Pollution Control Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. No sludge shall be discharged into watercourses or waters of the State.
2. There shall be no bypass of untreated wastewater to waters of the State.

B. Effluent Limitations

1. The discharge of an effluent containing constituents in excess of the following limits is prohibited:

<u>Constituent</u>	<u>Units</u>	<u>30-Day Average</u>	<u>Maximum Daily</u>	<u>Instantaneous Maximum</u>
a. Total Suspended Solids	lbs/day	776	5554	--
	kg/day	352	2519	--
	mg/l	30	45	--
b. Settleable Matter	ml/l-hr	0.1	0.2	--
c. Aluminum, dissolved	lbs/day	26	185	--
	kg/day	12	84	--
	mg/l	1.0	1.5	--
d. Chlorine Residual	mg/l	--	--	0.0

2. The discharge shall not have pH of less than 6.5 nor greater than 8.5.

3. In any representative set of samples the waste as discharged shall meet the following limit of quality:

TOXICITY:

The survival of a test organism acceptable to this Regional Board in 96-hour bioassays of the effluent as discharged shall achieve a median of 90% survival for three consecutive samples and a 90 percentile value of not less than 70% survival for 10 consecutive samples.

C. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any point.

- a. Floating, suspended, or deposited macroscopic particulate matter or foam;
- b. Bottom deposits or aquatic growths;
- c. Alteration of temperature or apparent color beyond present natural background levels;
- d. Increased turbidity above background levels by more than the following:

<u>Receiving Water Background</u>	<u>Incremental Increase</u>
<50 units (NTU)	5 units, maximum
50-100 units	10 units, maximum
>100 units	10% of background, maximum

- e. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
- f. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:

- a. Dissolved oxygen 5.0 mg/l minimum. Annual median not less than 80% saturation. When natural factors cause lesser concentration(s) the discharge shall not cause further reduction.
- b. Dissolved sulfide 0.1 mg/l maximum.
- c. pH Variation from natural ambient pH by more than 0.5 pH units.

D. Provisions

1. Neither the treatment nor the discharge of pollutants shall create a nuisance as defined in the California Water Code.
2. This permit may be modified, or, alternatively, revoked and reissued, to comply with any applicable effluent limitation issued pursuant to the order the United States District Court for the District of Columbia issued on June 8, 1976, in Natural Resources Defense Council, Inc. et. al. v. Russell E. Train, 8 ERC 2120 (D.D.C. 1976), if the effluent limitation so issued:
 - (a) is different in conditions or more stringent than any effluent limitation in the permit; or
 - (b) controls any pollutant not limited in the permit.
3. This Board's Order No. 74-174 is hereby rescinded.
4. The discharger shall comply with all terms of this Order.
5. The discharger shall comply with the attached Self-Monitoring and Reporting Program as ordered by the Executive Officer.
6. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements, and Definitions" dated April 1977, except A.5, A.12, A.16, B.2, B.3 and B.5.
7. The discharger shall review and update annually its contingency plan as required by Board Resolution No. 74-10. The discharge of pollutants in violation of this Order where the discharger has failed to develop and/or implement a contingency plan will be basis for considering such discharge a willful and negligent violation of this Order pursuant to Section 13387 of the California Water Code.
8. This Order expires on November 20, 1984. The discharger must file a Report of Waste Discharge in accordance with Title 23, Chapter 3, Subchapter 9, of the California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.
9. This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act or amendments thereto, and shall become effective ten (10) days after date of its adoption provided the Regional Administrator, Environmental Protection Agency has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on November 20, 1979.

Attachments:

Standard Provisions, Reporting
Requirements & Definitions - April 1977
Self-Monitoring Program

FRED H. DIERKER
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

REVISED

SELF-MONITORING PROGRAM
FOR

EAST BAY MUNICIPAL UTILITY DISTRICT

UPPER SAN LEANDRO FILTER PLANT

OAKLAND, ALAMEDA COUNTY

NPDES NO. CA 0038237

ORDER NO. 79-152

CONSISTS OF

PART A, dated January 1978

AND

PART B

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. EFFLUENT

<u>Station</u>	<u>Description</u>
E-001	At any point in the outfall pipe between the point of discharge into the storm drain and the point at which all waste tributary to that outfall is present.

B. RECEIVING WATERS

<u>Station</u>	<u>Description</u>
C-001	50 feet upstream of effluent discharge to Arroyo Viejo.
C-002	50 feet downstream of effluent discharge to Arroyo Viejo.

II. SCHEDULE OF SAMPLING AND ANALYSIS

A. The schedule of sampling and analysis shall be that given as Table I.

III. MODIFICATION OF PART A

1. Does not include the following paragraphs of Part A:

C.3, C.4, C.5.a, C.5.c, C.5.d, C.5.e, D.1, D.3, D.4, E.2.b, E.3, E.4, F.3.e., F.3.g.

2. Include the following modifications to Part A:

- (a) Paragraph D.2.a.: Delete "on days coincident with influent composite sampling, or."
- (b) Paragraph F.2.: Delete the first two sections pertaining to bypassing and technical reports.
- (c) Paragraph F.3: Change report submittal requirement to "quarterly" from "monthly."

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

- 1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 79-152.

2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachment:
Table I

Effective Date _____

TABLE I

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES

ORDER NO.

NPDES NO. CA0038237

SAMPLING STATIONS	E-001								
TYPE OF SAMPLES	C-24	G	O						
Flow Rate (mgd)			(1) D						
Settleable Matter (ml/l-hr)		D/2W							
Total Suspended Solids (mg/l & lbs/day)		D/2W							
Aluminum, dissolved (mg/l & lbs/day)		(2) Y							
Chlorine Residual (mg/l)		D/2W							
pH (units)		D/2W							
Fish Toxicity, 96-hour % survival in undiluted waste		(2) Y							
All Applicable Standard Observation			D/2W						
Turbidity (NTU)		D/2W							

LEGEND FOR TABLETYPES OF SAMPLES

G = grab sample C-24 = composite sample - 24-hour O = observation

FREQUENCY OF SAMPLING

D/2W = Daily for first two days of discharge occurrence and biweekly thereafter
(If non-compliance shown, sampling shall be daily until compliance
achieved).

D = daily

Y = Yearly

(1) An estimate is acceptable. Basis of calculation shall be stated in submittal.

(2) Samples shall be taken during that time of year when coagulation is routine
(1st calendar quarter).